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(71)Applicant : ERUDETSUKU:KK

(72)Inventor : OGAWA KOJI

(54) CERAMIC OF COAL ASH, ITS PRODUCTION AND USE THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a ceramic molding of coal ash, especially ceramic particles of coal ash, usable in a wide range of uses such as a soil improving material, a construction material, a water cleaning material, a filter material, an adsorbent, etc., by reusing coal ash as an industrial waste.
SOLUTION: This ceramic is obtained by molding and sintering very fine particles of coal ash having 1-10 μ m particle diameter. The very fine particles of coal ash are mutually bonded, a great number of fine voids are formed between the bonded very fine particles. These voids have a microstructure leading from the surface of the ceramic particles to the interior, 1-1.9g/cm³ bulk density and 10-50vol% percentage of water absorption, high air permeability and water permeability and proper water retention.

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